CLAIMS

What is claimed is:

1	1. A method for evaluating plane equations on a patch of pixels,
2	comprising the actions of:
3	evaluating the plane equations at a base location which is not
4	external to the patch;
5	computing plane equation valuation offsets for a plurality of spatial
6	offsets from said base location.
1	2. The method of Claim 1, wherein said base location is on the patch's
2	boundary.
1	3. A parallelized method for evaluating plane equations on a patch of
2	pixels, comprising the actions of:
3	converting the plane equations to a format in which x and y
4	coordinates are referenced to a base location which is within
5	one patch width from the patch being tested; and
6	computing plane equation valuation offsets for a plurality of spatial
7	offsets from said base location.
1	4. A parallellized method for rapidly testing membership of pixels in
2	a fragment, comprising the steps of:
3	(a.) defining half-plane membership functions with reference to a
4	base point which is not outside the fragment;
5	(b.) evaluating said membership functions at a base location which
6	is not external to the patch; and
7	(c.) clamping extreme values of said membership functions.
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1	5. A parallellized method for rapidly testing membership of patches of
2	pixels in a fragment, comprising the steps of:
3	(a.) defining half-plane membership functions with reference to a
4	base point which is not outside the fragment;

- (b.) evaluating said membership functions in parallel, for pixels of a patch; and
- (c.) clamping extreme values of said membership functions.
- 6. The method of Claim 4, wherein said clamping step limits dynamic range of said membership functions to less than 10 bits.
- 7. The method of Claim 5, wherein said clamping step limits dynamic range of said membership functions to less than 10 bits.